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NOTICE OF ALLOWANCE AND FEE(S) DUE

22511

7590

01/30/2009

EXAMINER CLEMENT ARE

OSHA LIANG L.L.P. TWO HOUSTON CENTER 909 FANNIN, SUITE 3500 HOUSTON, TX 77010 CLEMENTE, ROBERT ARTHUR

ART UNIT PAPER NUMBER

1797

DATE MAILED: 01/30/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,489	08/15/2006	Yoshinori Tajima	08228/087001	5140

TITLE OF INVENTION: UNIT FOR SEPARATING GAS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
22511	7590 01/30	/2009						of Mailing or Transı	
OSHA LIANG L.L.P. TWO HOUSTON CENTER 909 FANNIN, SUITE 3500					I her State addre trans	eby certify that the	is Fee(s) Transmittal is being	deposited with the United t class mail in an envelop- above, or being facsimilate indicated below.
HOUSTON, TX	77010								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/566,489	08/15/2006			Yoshinori Tajima	l			08228/087001	5140
TITLE OF INVENTION	: UNIT FOR SEPARAT	ING GA	\S						
APPLN. TYPE	SMALL ENTITY	ISS	UE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
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CLEMENTE, RO	BERT ARTHUR		1797	096-104000					
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Change of corresp	ondence address (or Cha	inge of C	Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,					
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to						
PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 2 registered patent attorneys or agents. If no name is listed, no name will be printed.									
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE	E PRINTED ON T	ГНЕ PATENT (print c	or typ	e)			
PLEASE NOTE: Unl	less an assignee is ident h in 37 CFR 3.11. Com	ified bel oletion o	ow, no assignee f this form is NO	data will appear on the Carta will appear on t	he pa	tent. If an assign	ee is io	lentified below, the do	ocument has been filed fo
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4a. The following fee(s)	are submitted:		41	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed.					
☐ Issue Fee☐ Publication Fee (No small entity discount permitted)			d)	Payment by credit card. Form PTO-2038 is attached.					
Advance Order - # of Copies				The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta	tus (from status indicate	d above)	1	o respunient, to 1	- epo.			(0.0010300 0.1	
**	s SMALL ENTITY state							ΓΙΤΥ status. See 37 CF	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if reqrecords of the United Sta	uired) w ites Patei	ill not be accepte nt and Trademark	d from anyone other the Office.	nan th	ne applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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OSHA LIANG L	.L.P.	CLEMENTE, RO	BERT ARTHUR	
TWO HOUSTON			ART UNIT	PAPER NUMBER
909 FANNIN, SUI HOUSTON, TX 7			1797 DATE MAILED: 01/30/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 317 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 317 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/566,489	TAJIMA ET AL.			
Notice of Allowability	Examiner	Art Unit			
	ROBERT A. CLEMENTE	1797			
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the (OR REMAINS) CLOSED in this or other appropriate communical GHTS. This application is subject and MPEP 1308.	application. If not included ation will be mailed in due course. THIS			
1. This communication is responsive to <u>communication filed (</u>	<u>01 December 2008</u> .				
2. ☑ The allowed claim(s) is/are <u>1 and 3-10</u> .					
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	been received. been received in Application No	D			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.				
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) I including changes required by the Notice of Draftspers	,	TO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	al Patent Application			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summ	nary (PTO-413),			
Paper No./Mail Date 3.					
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	ement of Reasons for Allowance			
	9.				

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Art Unit: 1797

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see pages 4 - 8, filed December 1, 2008, with respect to claims 1 and 3 - 10 have been fully considered and are persuasive. The rejection of claims 1 and 3 - 9 has been withdrawn.

Allowable Subject Matter

- 2. Claims 1 and 3 10 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The Examiner agrees with Applicant's arguments that Funke fails to teach or suggest a plurality of gas discharge lines connected to the outlet of either the plurality of columns in series packed with different fillers or a single column packed with a plurality of different fillers.

Japanese Publication No. JP 2002-035527 to Abe et al. represents the closest prior art to the amended claims. Abe teaches a gas separating apparatus that separates each of a plurality of specific gases from a treatment gas containing the specific gases. The apparatus of Abe is shown in figure 1. Abe includes an adsorbing device (18) in series with a chromatographic separator (20). The adsorbing device (18) and chromatographic separator (20) are formed as columns and each has a different filler. The adsorbing device, however, inherently performs an adsorption process. Thus, the adsorbing device (18) and chromatographic separator (20) cannot be considered to be a plurality of columns in series that chromatographically separate the specific gases.

Additionally there is no teaching or suggestion in Abe or the prior art to include another filler in the chromatographic separator column or another column with a different filler.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT A. CLEMENTE whose telephone number is (571)272-1476. The examiner can normally be reached on M-F, 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1797

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RAC

/DUANE SMITH/ Supervisory Patent Examiner, Art Unit 1797 1-25-09